Interstate Shellfish Sanitation Conference 2013 Biennial Mecting Submitter: US Food and Drug Administration Addinass Center for Food Safety and Applied Nutrition 5100 Paim Branch Parkway College Park, MD 20710 Phone: 240-402-2300 Fax: 301-436-2601 Email: Melissa Evans@fda.hhs.gov Proposal Subject: Specific NSSP Guide Reference: NSSP Guide Section II Model Ordinance Chapter XVI. and Section IV Guidance Documents Chapter IV. Text of Proposal/ Requested Action The National Shellfish Sanitation Program (NSSP) Model Ordinance Chapter XVI. Post Harvest Process Validation Studies as follows: In the National Shellfish Sanitation Program (NSSP) Model Ordinance Chapter XVI. Post Harvest Processing (PHP) it states that if a dealer elects to utilize a PHP for the purpose of making safety added labeling claims they must conduct a validation study to demonstrate the ability of the PHP to reduce the target pathogen(s) to acceptable levels. Specifics on target levels and approved methods of detection for pathogens are found in the Model Ordinance. All laboratory analysis must be performed by a laboratory that has been evaluated by FDA or an HDA certified LEO and found to "conform" or "provisionally conform" with the requirements of the National Shellfish Sanitation Program (NSSP) Model Ordinance Chapter III and supporting Guidance Documents. Results of the validation study should be submitted in the following format for review and consideration by state and federal shellfish control authorities. For validation of Vibrio validicus or Vibrio parahaemolyticus methods, checklist may be used as a guide. 1) TITLE OF PHP METHOD VALIDATED 2) SUMMARY 3) OBJECTIVES (Study Purpose) a) Detailed description of the PHP method validated. b) Target pathogen(s) and prescribed reduction. 4) METHOD OF ANALYSIS a) Detailed description of the PHP method validated. b) Target pathogen(s) and prescribed reduction. c) Identify tumpber of animals used in study and number of trials performed. b) Laboratory: (Pre and post processing pathogen	Proposal for Consideration	
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Affiliation: US Food and Drug Administration Center for Food Safety and Applied Nutrition 5100 Paint Branch Parkway College Park, MD 20710		
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description of analytical procedure)		
i) Initial pathogen levels and pathogen detection model: microbiological		

	or chemical analysis.
	(1) How was initial pathogen load achieved, i.e. naturally
	occurring population, inoculation or thermal abuse.
	(2) Provide adjusted Geometric Mean (AGM) calculations and unit
	of measure appropriate for target (i.e.: MPN/g for Vibrio or
	coliforms, CFU/100g for Elevated Temperature Coliform
	Plates (ETCP fecals).
	(3) Analytical methodology used for pathogen quantification and
	confirmation. This method must be recognized in the NSSP
	Guide for the Control of Molluscan Shellfish (Accepted
	methods listed in Section IV. Guidance Documents Chapter
	II.10 Approved National Shellfish Sanitation Program
	Laboratory Tests: Microbiological and Biotoxin Analytical
	Methods.)
	ii) Post Process Product Analysis: microbiological or chemical analysis
	(1) Quantify pathogen level(s) in processed product utilizing the
	same analytical method used to attain initial load.
	c) Validation Outcome:
	i) Provide specific information regarding outcome measurements. Metric
	used to validate method (these will vary depending on targeted
	pathogen and are located in the Model Ordinance). Documentation that
	process achieved target reduction.
	5) RESULTS
	a) Graphs, tables and charts outlining the validation study results.
	i) Data from validation demonstration; levels achieved in post process.
	ii) Pathogen measurements (for example: AGM interval, grams per tube
	and the number of positive tubes as per the guidance document for
	verification/validation).
	6) CONCLUSIONS:
	a) Demonstrate reduction of the target pathogen to NSSP established
	standards.
	7) APPENDIX
	a) Tables or graphical interpretations of data.
	8) OPTIONAL INFORMATION
	a) If appropriate, include optional items such as interpretation of confounding
	factors or applicable industry limitations.
	b) Acknowledgements, for example funding sources, technical help or
	<u>bibliography.</u>
Public Health	The purpose of this proposal is to provide guidance for dealers conducting post-
Significance:	harvest processing validation studies for the purposes of labeling shellfish as
Significance:	outlined in Model Ordinance Chapter XVI.
	outilited in Model Ordinance Chapter A v1.
Cost Information	
(if available):	
(if available).	
	<u>I</u>

<u>D</u> 1	<u>Draft- Checklist for Submission of Post-Harvest Process Validation Studies for Vibrio vulnificus and Vibrio parahaemolyticus</u>		
Explar	nation of PHP Method Validated		
1.	Method name		
<u>2.</u>	Specific information about machinery, equipment, or supplies necessary to perform the		
	method of PHP is provided		
<u>3.</u>	Standard operating procedures: Detailed description of the PHP method validated is		
<u>4.</u>	What are the specific issues that must be accounted for during processing? For example, is		
	there a limit to number of shellfish, spacing, hold times that are considered part of the		
<u>5.</u>	Internal quality control measures for equipment calibration, maintenance, repair and for		
Oh: a et	performance checks are explained.		
	Does the process reduce the level of Vibria vulnificus and/or Vibria navela amaluticus in the		
<u>1.</u>			
	process to non-detectable (<30MPN/gram) and achieve a minimum 3.52 log reduction?		
<u>2.</u>	Was the process validated by demonstrating that the process will reliably achieve the		
	appropriate reduction in the target pathogen(s) in a study as outlined in Guidance Documents		
	Chapter IV, Naturally Occurring Pathogens.		
Metho	d of Analysis		
<u>1.</u>	Was laboratory analysis performed by a laboratory that has been evaluated by FDA or an		
	FDA certified LEO and found to "conform" or "provisionally conform" with the		
	requirements of the National Shellfish Sanitation Program (NSSP) Model Ordinance Chapter		
	III and supporting Guidance Documents?		
<u>2.</u>	Are all variables that could affect the outcome of the PHP identified: temperatures, weights		
	or other pertinent information?		
<u>Pre Pr</u>	ocessed Samples to attain initial levels		
<u>1.</u>	Microbiological testing for initial levels was done by a 3-tube MPN using appropriate		
	<u>dilutions (10-1 to 10-6).</u>		
<u>2.</u>	Was the initial level of Vibrios for each lot of shellfish used in the validation 10,000 MPN		
	per gram or greater based on the adjusted geometric mean (AGM) of the MPNs/g of four		
<u>3.</u>	How were the zero hour levels achieved: through naturally occurring Vibrio levels in		
	shellfish, time/temperature abuse, inoculation? (Inoculation is not preferred)		
Enume	eration of or Processed Samples		
<u>1.</u>	Does a sample consist of a composite of 10 to 12 oysters processed at one time from one		
2.	Is there data on ten processed samples obtained on each of three processing days (total of 30		
	samples)?		
3.	Microbiological testing for processed samples was done with a single dilution five-tube		
	MPN, inoculating with either 0.01 g or 0.1 g of shellfish.		
4.	Are only analytical methods to determine Vibrio levels previously endorsed by the ISSC as		
	indicated in Model Ordinance Chapter XVI. Post-Harvest Processing?		
5.	Was microbiological testing for processed samples done with a single dilution five-tube		
	MPN, inoculating with either 0.01 g or 0.1 g of shellfish per tube?		
<u>6.</u>	For the process to be validated, no more than three samples out of 30 may fail. Failure is		
	based on the Guide for the Control of Molluscan Shellfish 2009 Section IV. Guidance		
	Documents Chapter IV. Naturally Occurring Pathogens .04 Post Harvest Processing (PHP)		
	<u>Validation/Verification Guidance for Vibrio vulnificus and Vibrio parahaemolyticus.</u>		